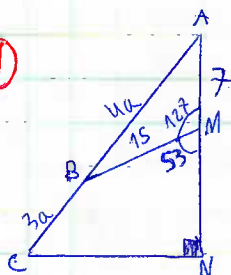


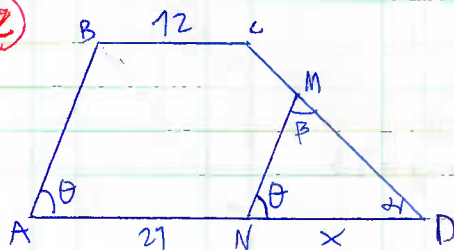
①



$$3AB = 4BC$$

$$\frac{AB}{BC} = \frac{4a}{3a}$$

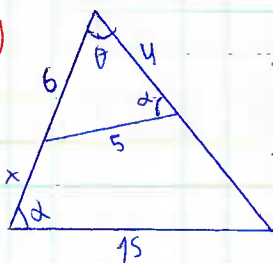
②



$$5CM = 3MD$$

$$\frac{CM}{MD} = \frac{3a}{5a}$$

③

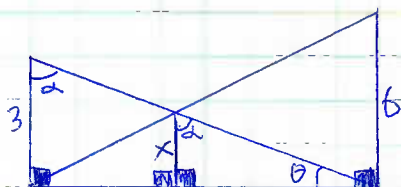


$$\frac{6+x}{4} = \frac{15}{5}$$

$$\frac{6+x}{4} = 3$$

$$x = 6$$

④

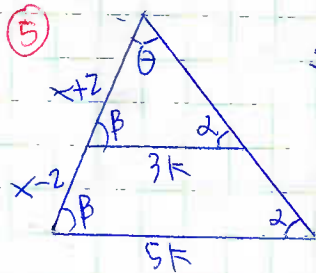


$$x = \frac{3 \cdot 6}{9}$$

$$x = \frac{18}{9}$$

$$x = 2$$

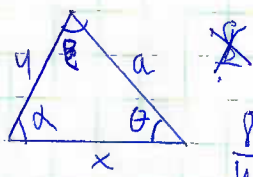
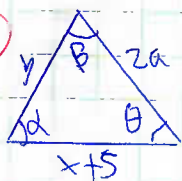
5



$$\frac{x+2+x-2}{x+2} = \frac{5r}{3r}$$

$$x=10$$

6



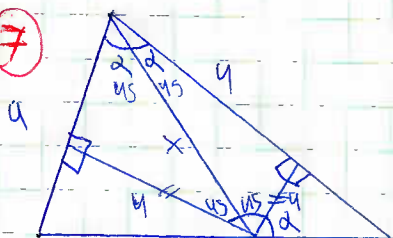
$$\frac{y}{4} = \frac{x+5}{x}$$

$$5=y$$

$$\frac{2a}{a} = \frac{y}{4} \Rightarrow 8=y$$

$$x+y=73$$

7



$$90 + \alpha = 180$$

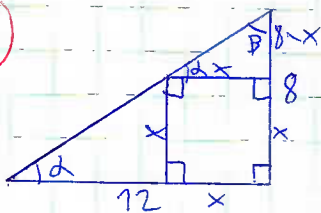
$$\alpha = 90$$

$$\frac{9}{x} = \frac{x}{4}$$

$$36 = x^2$$

$$6 = x$$

8



$$\frac{8-x}{8} = \frac{x}{12}$$

$$96 - 12x = 8x$$

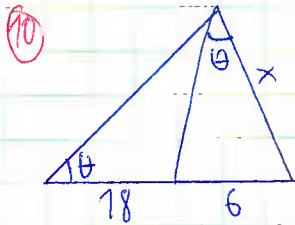
$$x = 4,8$$



$$\frac{x}{2} = \frac{8}{x}$$

$$x^2 = 16$$

$$x = 4$$



$$\frac{x}{6} = \frac{24}{x}$$

$$x^2 = 144$$

$$x = 12$$